This disassembly guide is for the Asus G50V series notebook.

NOTE: Remember to unplug your power cord, remove your battery and ground yourself before attempting to disassemble anything. I am not responsible for any damages you do to your notebook. This guide is from Asus and simply for references only. Please also note that replacing your CPU and/or GPU will automatically void all manufacture warranties. USE WITH CAUTION!

Chapter 2

Disassembly Procedure

Please follow the information provided in this section to perform the complete disassembly procedure of the notebook. Be sure to use proper tools described before.

ASUS G50V Notebook consists of various modules. This chapter describes the procedures for the complete notebook disassembly. In addition, in between procedures, the detailed disassembly procedure of individual modules will be provided for your service needs.

The disassembly procedure consists of the following steps:

- Battery Module
- CPU Module
- VGA Module
- Memory Module
- Wireless LAN Module
- HDD Module
- ODD Module
- Keyboard Module
- Top Case Module
- Motherboard Module
- LCD Module

BATTERY

Battery Module

The illustration below shows how to remove the battery module.

Remove Battery Module

Open latch 1 and hold the latch 2 when take the battery away.

CPU MODULE

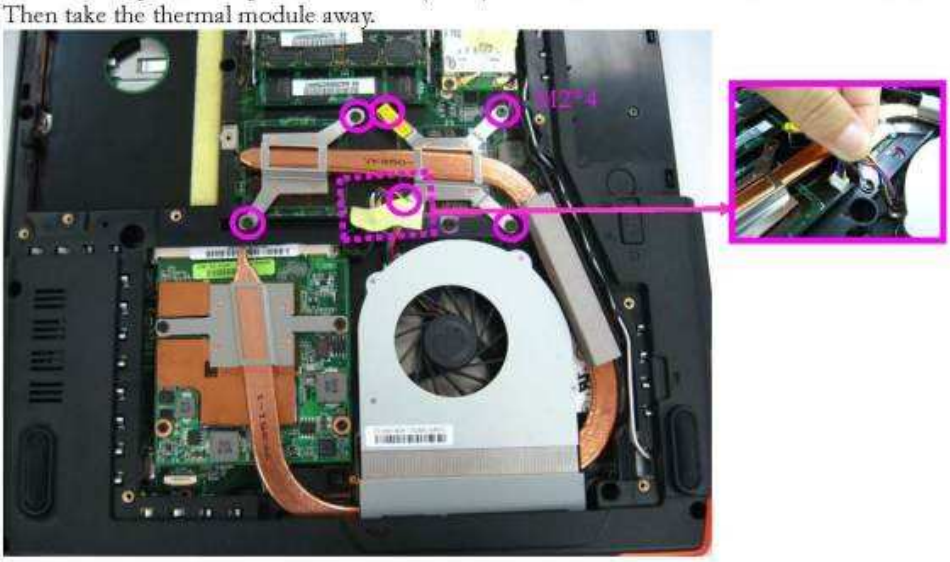
CPU Module

The illustrations below show how to remove the CPU module from the notebook.

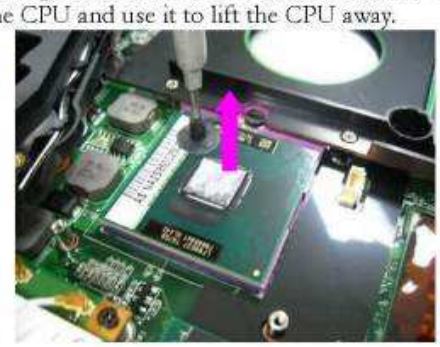
Remove CPU Module

1. Remove 12 screws (M2.5*4, M2.5*7, M2.5*8) on CPU cover and remove the CPU cover.

2. Remove 1 piece of tape and 6 screws (M2*4) on thermal module. Disconnect the fan cable. Then take the thermal module away.



3. Turn the non-removable screw here 180 degrees counter-clockwise to loosen the CPU. Squeeze the vacuum handling pump on the CPU and use it to lift the CPU away.



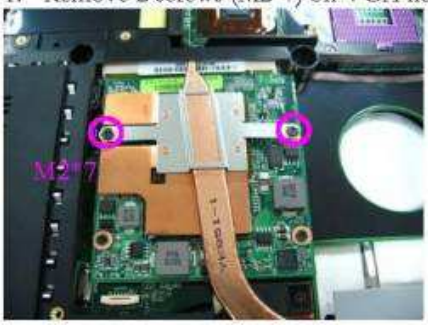
VGA MODULE

VGA Module

The illustration shows how to remove the VGA module from the notebook.

Remove VGA Module

1. Remove 2 screws (M2*7) on VGA heat sine and then take the heat sine away.



2. Remove 2 screws (M2*4) on VGA card and pull out the card from its slot.

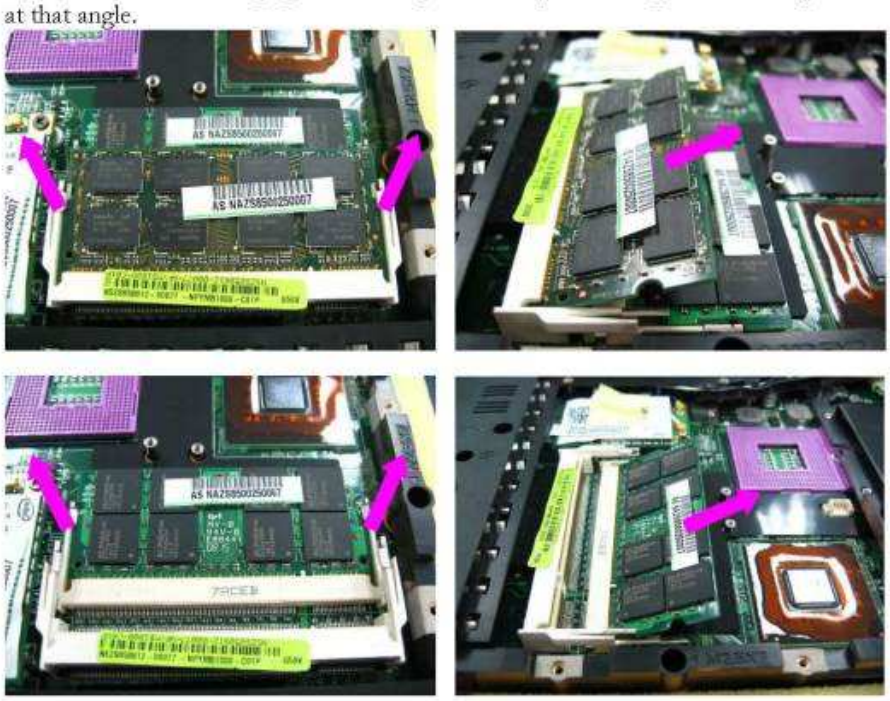
MEMORY MODULE

Memory Module

The illustration shows how to remove the memory module form the notebook.

Remove Memory Module

Pull two latches here to pop the Memory module up at 45° angles, and then pull out the module at that angle.



WLAN MODULE

Wireless LAN Module

The illustration below shows how to remove the Wireless LAN module from the notebook.

Remove Wireless LAN Module

1. Disconnect the antennas and remove 2 screws (M2*4) on Wireless LAN card and pull out the card from its slot.

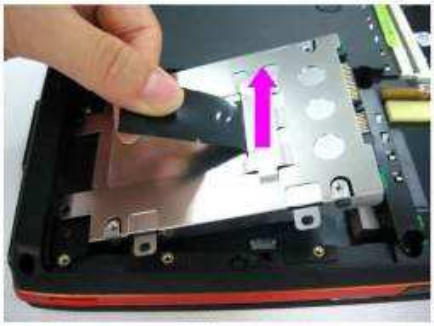
HDD MODULE

HDD Module

The illustrations below show how to remove the HDD module from the notebook.

Remove HDD Module

1. Remove 2 screws (M2.5*4) on bottom case. Pull the hard disk module toward the direction of the arrows and then lift it up and take it out.



2. Remove 4 screws (M3*3) to separate HDD from HDD housing

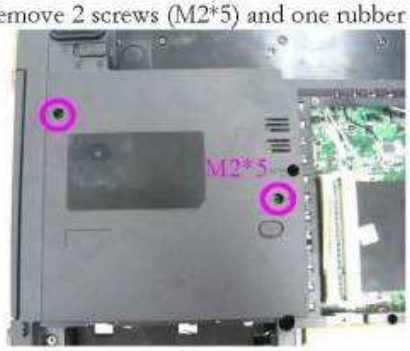
OPTICAL DRIVE

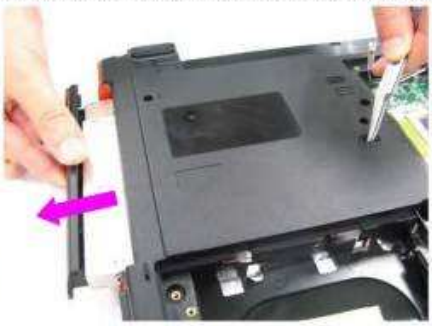
Optical Drive Module

The illustrations below show how to remove the ODD module.

Remove ODD Module

Remove 2 screws (M2*5) and one rubber here. Pull the ODD module out of the notebook.





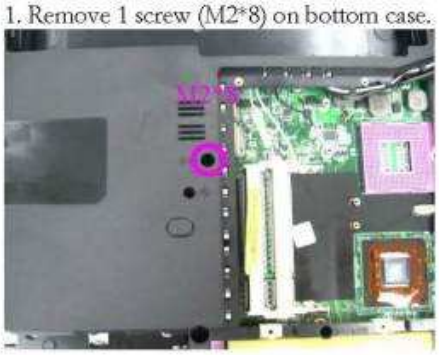
KEYBOAR

Keyboard Module

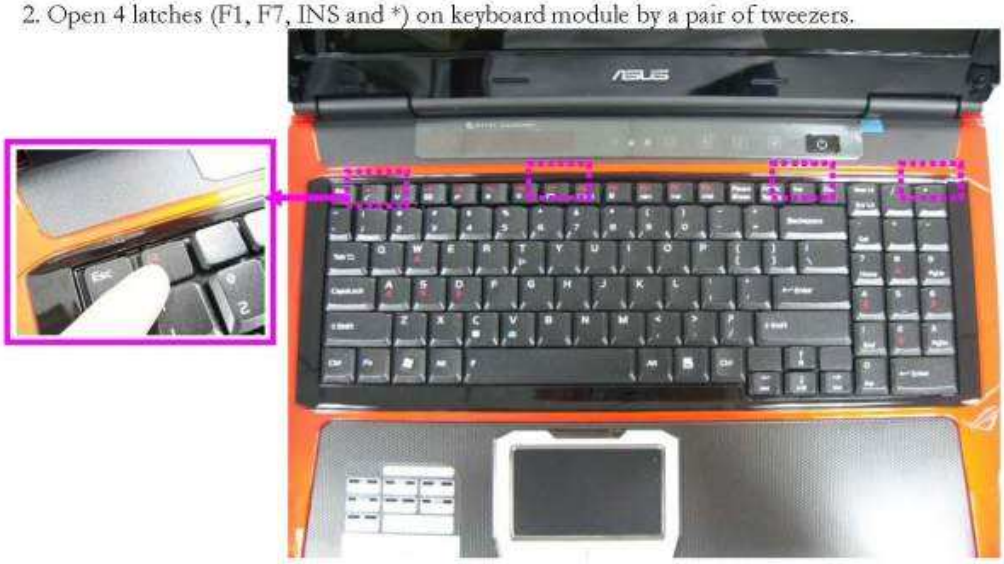
The illustrations below show how to remove the keyboard.

Remove Keyboard

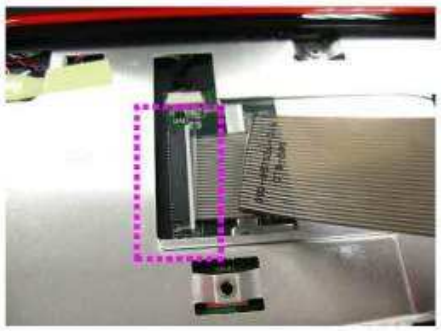
1. Remove 1 screw (M2*8) on bottom case.



2. Open 4 latches (F1, F7, INS and *) on keyboard module by a pair of tweezers.

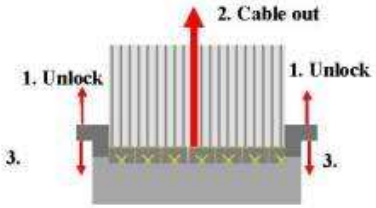


3. Turn over the keyboard plate and disconnect the keyboard FPC and remove the keyboard plate.

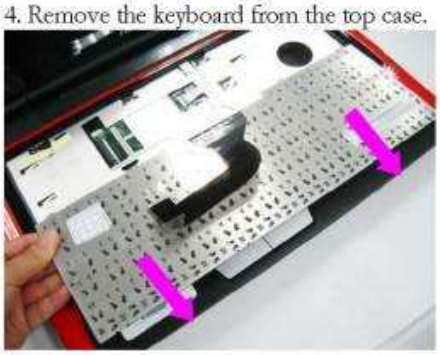


Remove Keyboard Cable

1. Use a flexible connector tool to unlock the cable connector on both ends (no. 1).
2. Carefully pull out the keyboard cable (no. 2) with a pair of tweezers.
3. Lock the connector (no. 3) again to avoid possible breakage.



4. Remove the keyboard from the top case.



TOP CASE

Top Case Module

The illustrations below show how to disassemble and remove the top case module of the notebook. The module contains the top case itself.

Remove Top Case Module

1. Remove two dummy cards from notebook.

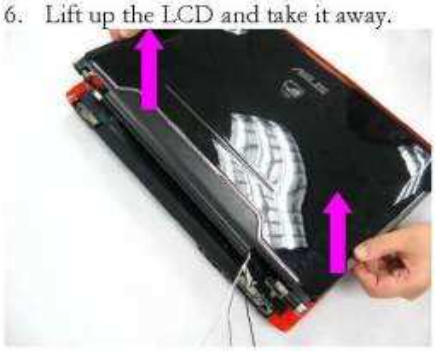
2. Remove 2 LCD hinge covers.

3. Remove 6 screws (M2.5*7, M2*5) on bottom case.

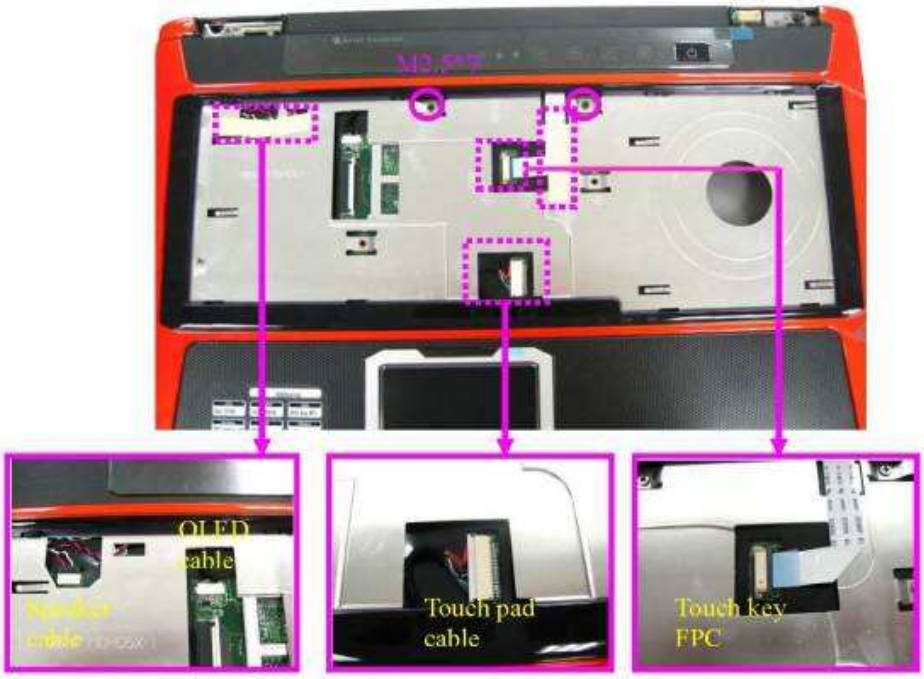
4. Disconnect the LVDS cable and INV CMOS MIC cable.

5. Release the wireless antennas on bottom case and pull out the antennas from the hole in bottom case.

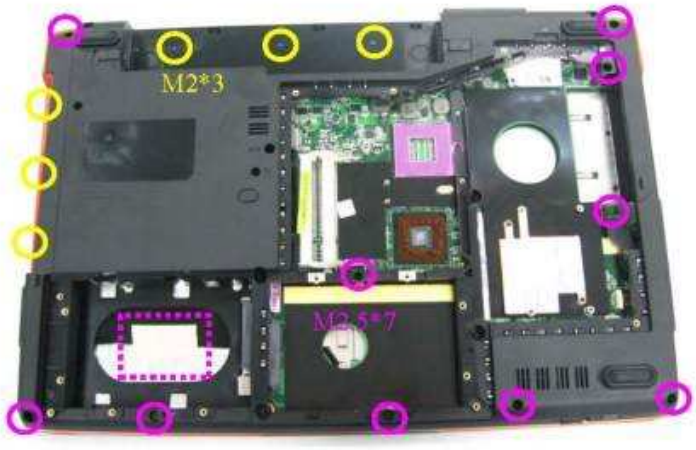
6. Lift up the LCD and take it away.



7. Remove 2 pieces of tape and disconnect the speaker cable, OLED cable, touch pad cable and touch key FPC from top case. Remove 2 screws (2.5*7) on top case.

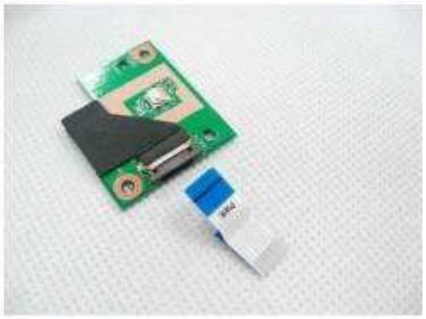


8. Remove 16 screws (M2*3, M2.5*7) on bottom case and tear of one piece of tape fixing the USB PCB cable.

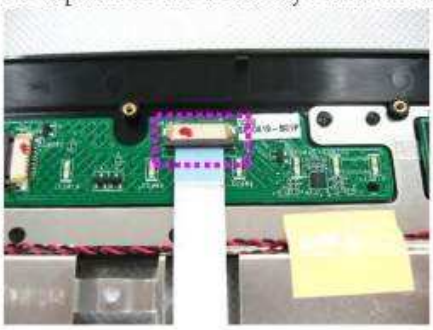


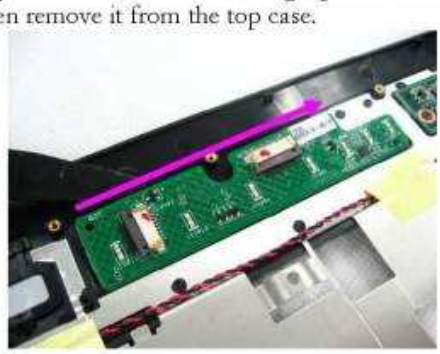
9. Take away the top case.

10. Disconnect the FPC from the power board and remove 2 screws (M2*3). Take the power board away. Disconnect the FPC from the board.

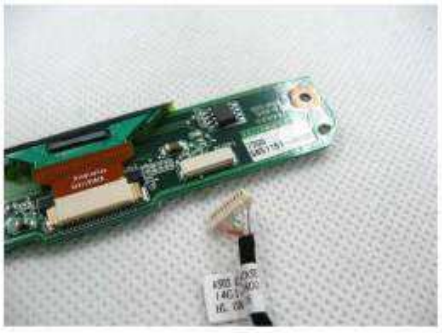


11. Disconnect the FPC from the touch key board and remove it. Using a plastic blade to pry the top side of the touch key board and then remove it from the top case.

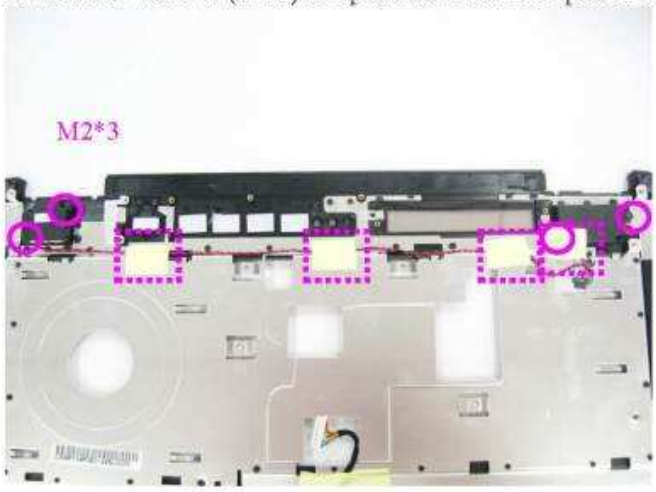


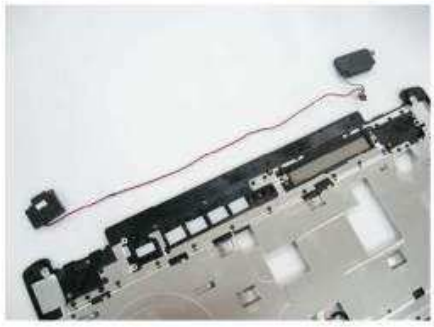


12. Tear off 1 piece of tape. Remove 2 screws (M2*3) on OLED board and take it away. Then disconnect OLED cable.

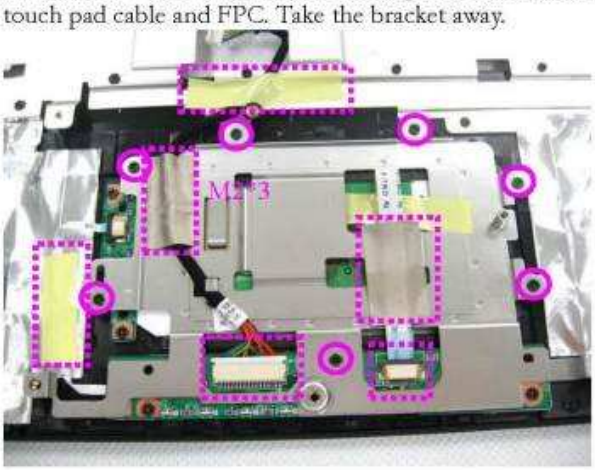


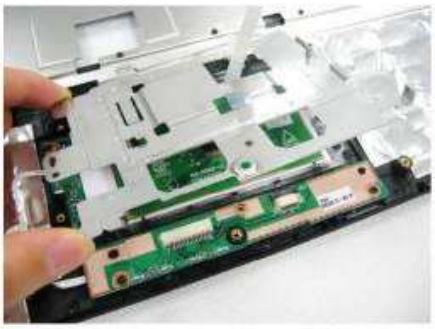
13. Remove 4 screws (M2*3) on speaker and take the speaker away.





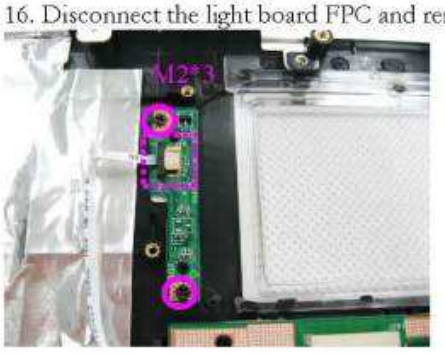
14. Remove 7 screws (M2*3) on touch pad bracket and tear off 4 piece of tape. Disconnect the touch pad cable and FPC. Take the bracket away.

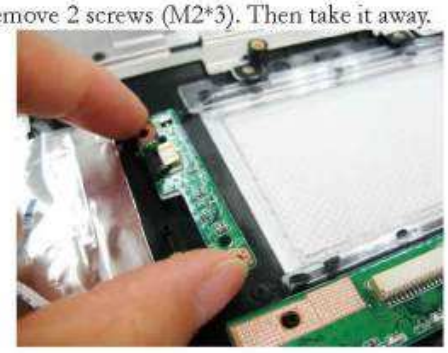




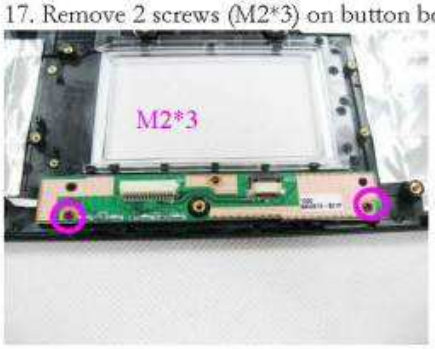
15. Remove the touch pad and disconnect the FPC from it.

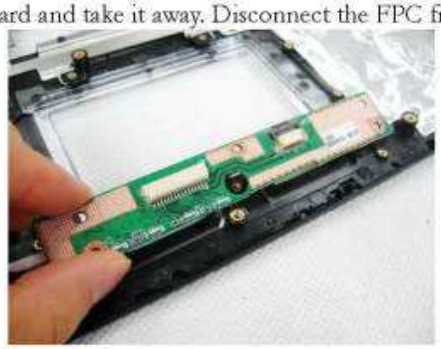
16. Disconnect the light board FPC and remove 2 screws (M2*3). Then take it away.

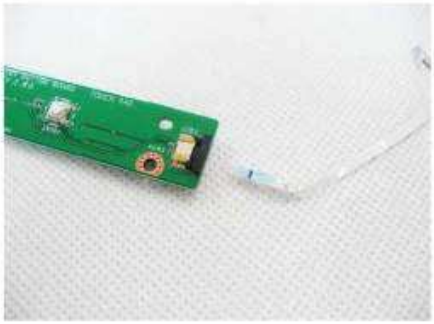




17. Remove 2 screws (M2*3) on button board and take it away. Disconnect the FPC from it.





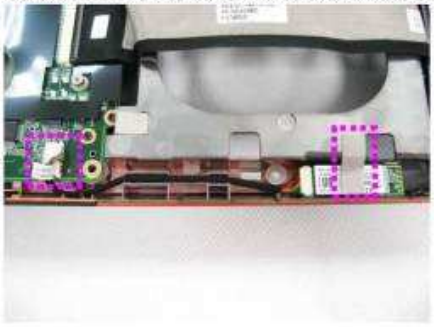


MOTHERBOARD MODULE

Motherboard Module

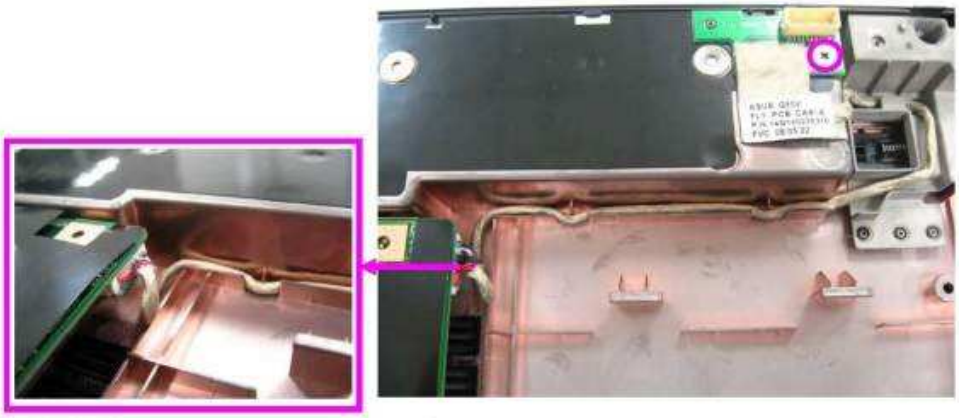
The illustrations below show how to disassemble and remove the Motherboard Module.

1. Disconnect the Bluetooth cable from the motherboard and tear off the tape. Remove the Bluetooth module from the bottom case. Disconnect the cable from the Bluetooth.



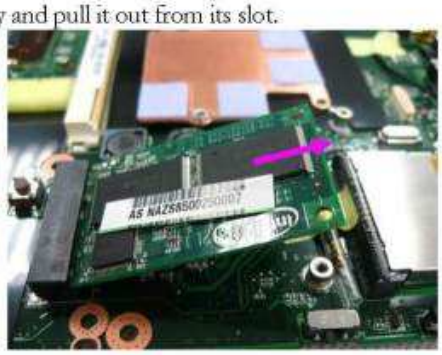
2. Remove 1 screw (M2.5*4) on IO board and disconnect the cable from the board. Then remove the IO board from the bottom case. Disconnect the cable from the motherboard and take it away.

3. Disconnect the FLY PCB cable and remove 1 screw on it. Then remove it from the bottom case.



4. Remove 2 screws (M2.5*4) on motherboard and separate the motherboard from bottom case.

5. Remove 2 screws (M2*4) on turbo memory and pull it out from its slot.



6. Remove the 2 screws (M2*2) on modem and disconnect its cable from the motherboard. Then remove the modem from the motherboard.

7. Remove 2 screws on IO bracket and take the IO bracket away.

LCD Module

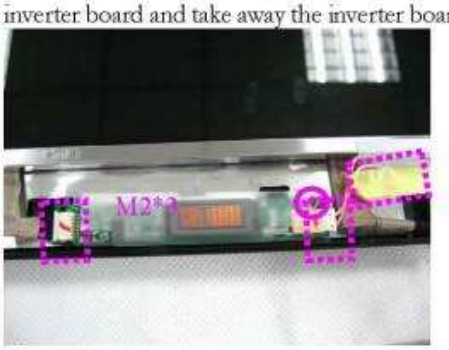
The illustrations below show how to remove and disassemble the LCD module. The module contains LCD panel, Inverter board, LCD bezel, LCD back cover.

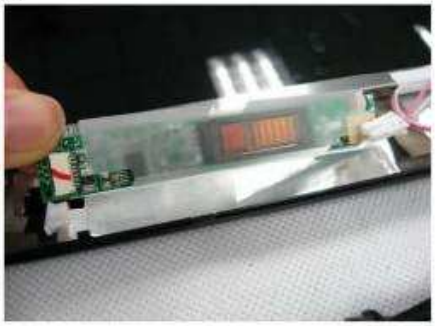
Disassemble LCD Module

1. Remove 6 rubber pads and 6 screws (M2.5*5) on LCD front bezel.

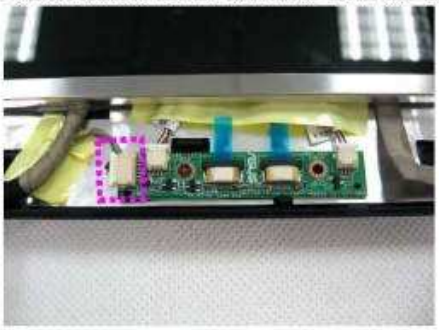
2. Pry the inside edges softly to separate LCD front bezel from LCD panel and take it away.

3. Remove 1 screws (M2*3) on inverter board. Disconnect the LCD cable and inverter cable from inverter board and take away the inverter board.



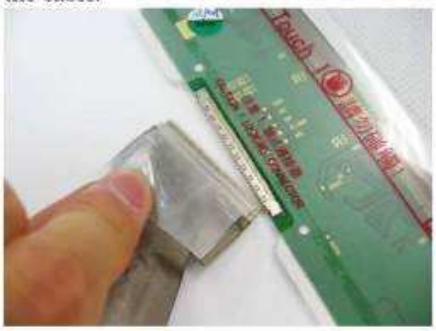


4. Disconnect the LVDS cable from the LED board.

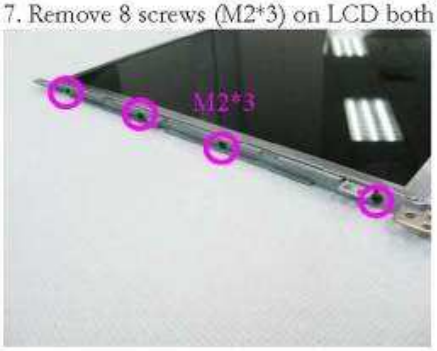


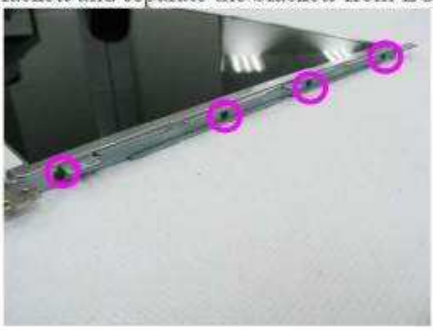
5. Remove 8 screws (M2.5*5) on LCD panel. Lift up the LCD panel and take it away.

6. Turn over the LCD panel and disconnect the LCD cable from the LCD panel. Then remove the cable.



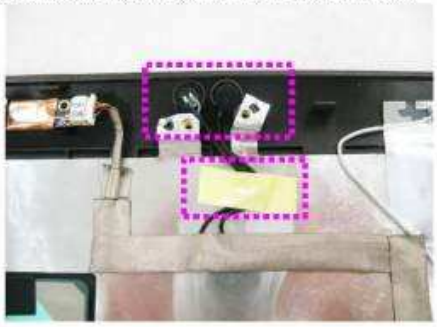
7. Remove 8 screws (M2*3) on LCD both brackets and separate the brackets from LCD panel.

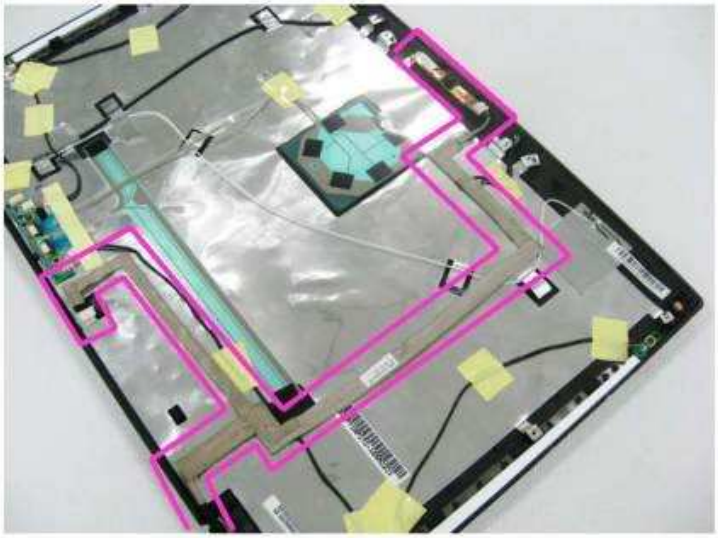




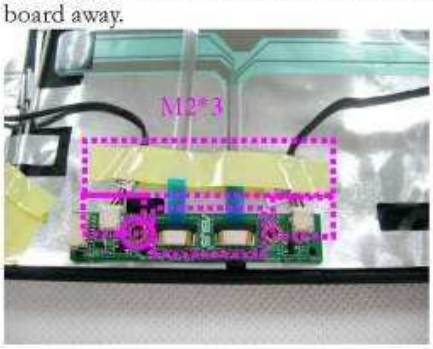
8. Remove 2 screws (M2.5*5) on LCD support bracket and take it away.

9. Remove 2 screws (M2*3) on camera and release the microphone in LCD back cover. Tear off the INV CMOS MIC cable from the back cover and disconnect it from the camera.

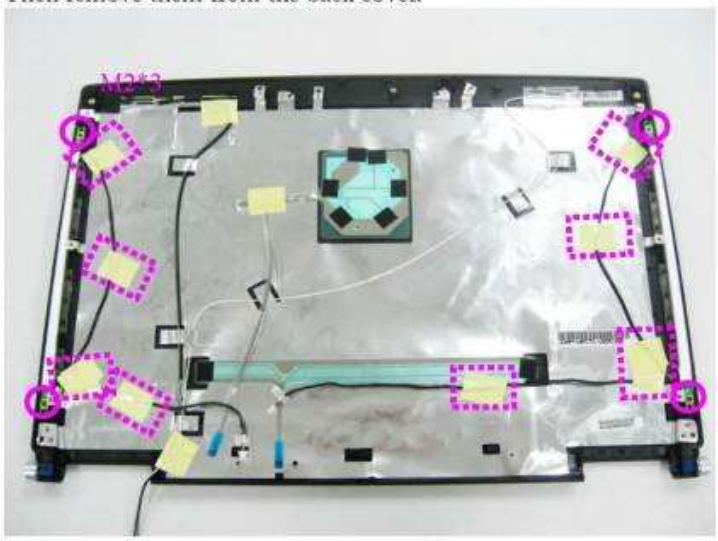




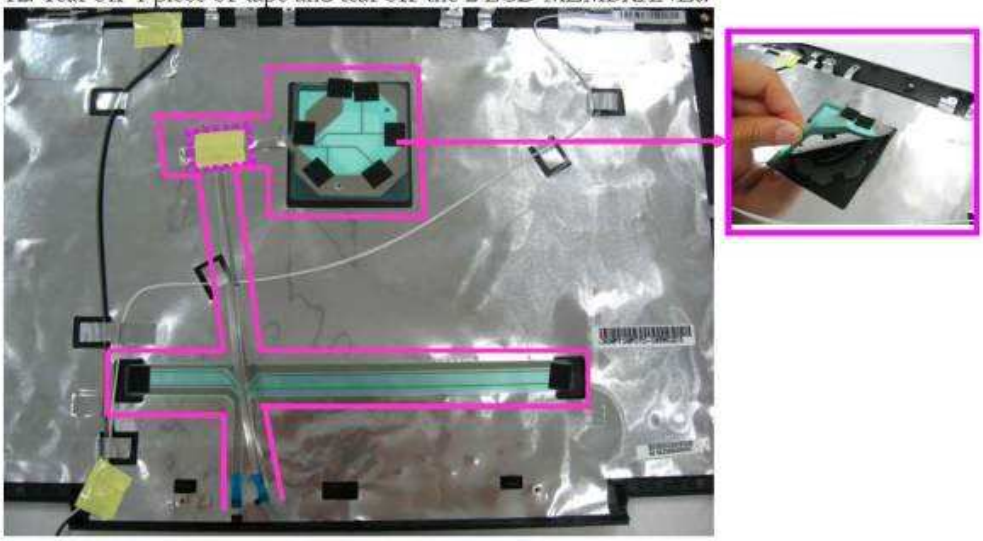
10. Tear off 1 piece of tape. Disconnect the 2 LED board cable, LCD DECO MEMBRANE and LCD LOGO MEMBRANE from the LED board. Remove 1 screw (M2*3). Take the LED board away.



11. Tear off the tape fixing the LED board cable and remove 4 screws (M2*3) on the 2 cables. Then remove them from the back cover.



12. Tear off 1 piece of tape and tear off the 2 LCD MEMBRANEs.



13. Tear off the tape fixing the wireless antennas and remove the antennas from the back cover.